

WHAT IS CLAIMED IS:

1. A process for analyzing one or more bodily fluids, comprising the steps of:

5           placing a sample of a bodily fluid in at least one container;  
          placing the container in a fluid analyzing unit;  
          analyzing the sample to determine characteristics of the bodily fluid;  
          sending the determined characteristics to a printer within the fluid  
          analyzing unit; and  
10          printing the determined characteristics onto the container.

2. The process of claim 1, further comprising the steps of  
communicating data to the unit which identifies a source of the bodily fluid,  
and printing the data identifying the source of the bodily fluid on the  
15          container.

3. The process of claim 2, including the step of communicating the  
data identifying the source of the bodily fluid to the unit via radio frequency  
identification (RFID).  
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4. The process of claim 2, including the step of communicating the  
data identifying the source of the bodily fluid to the unit via a bar code reader.

5. The process of claim 1, wherein the analyzing step includes the  
step of reading through the container.  
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6. The process of claim 1, wherein the at least one container  
includes a radio frequency identification (RFID) inlet.

7. The process of claim 6, including the step of transmitting the  
determined characteristics to the RFID inlet on the container.  
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8. The process of claim 1, wherein the sample is a blood sample.

9. The process of claim 1, wherein the determined characteristics include at least one of the following: blood type and Rh factor.

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10. The process of claim 1, wherein the at least one container is transparent.

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11. A process for analyzing one or more bodily fluids, comprising the steps of:

placing a sample of a bodily fluid in at least one transparent container;

placing the container in a fluid analyzing unit;

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writing data identifying a source of the bodily fluid to the fluid analyzing unit;

analyzing the sample to determine characteristics of the bodily fluid;

sending the determined characteristics to a printer within the fluid analyzing unit; and

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printing both the data identifying the source of the bodily fluid and the determined characteristics onto the container.

12. The process of claim 11, wherein the at least one container includes a radio frequency identification (RFID) inlet;

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13. The process of claim 12, including the step of transmitting the determined characteristics to the RFID inlet on the container.

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14. The process of claim 11, wherein the writing step includes the step of writing the data identifying the source of the bodily fluid to the unit via radio frequency identification (RFID).

15. The process of claim 11, wherein the writing step includes the step of communicating the data identifying the source of the bodily fluid to the unit via a bar code reader.

5                   16. The process of claim 11, wherein the analyzing step includes the step of reading through the container.

10                   17. The process of claim 11, wherein the sample is a blood sample, and wherein the determined characteristics include at least one of the following: blood type and Rh factor.

18. An automatic blood analysis and identification system, comprising:

15                   a carrier unit;  
                    means for holding at least one container within the unit;  
                    a printer disposed within the unit and capable of printing information onto the at least one container; and  
                    a photo-analyzer for analyzing a blood sample within the at least one container, and sending information to the printer for printing the  
20                   information on the at least one container.

19. The system of claim 18, wherein the at least one container includes a radio frequency identification (RFID) inlet.

25                   20. The system of claim 18, wherein the printer prints directly onto a surface of the at least one container.

30                   21. The system of claim 18, wherein the at least one container includes a label such that the printer prints directly onto a surface of the label.

22. The system of claim 21, wherein the at least one container is transparent.

23. The system of claim 18 wherein there are at least three slots within the unit, wherein each slot is configured to hold a container.

24. The system of claim 23, wherein the printer includes at least one printer head assigned to each slot.

25. An automatic blood analysis and identification system, comprising:

a carrier unit;

at least three slots within the unit, wherein each slot is configured to hold a transparent container having a radio frequency identification (RFID) inlet;

a printer disposed within the unit and capable of printing information onto each container within the unit; and;

a photo-analyzer for analyzing a blood sample within at least one container, determining information including blood type and Rh factor from the blood sample, and sending the information to the printer for printing the information on the at least one container.

26. The system of claim 25, wherein the printer prints directly onto a surface of the at least one container.

27. The system of claim 25, wherein the at least one container includes a label such that the printer prints directly onto a surface of the label.